CLAIMS

- 1. A monoclonal antibody which can recognize an N-terminus peptide of an amyloid β , but not an amyloid β precursor protein.
- 2. The monoclonal antibody according to claim 1, wherein the N-terminus peptide of the amyloid β is a peptide shown by the following amino acid sequence (a):
 - (a) DAEFRHDSGYEVHHQK (Sequence ID No. 1).
- 3. The monoclonal antibody according to claim 1, wherein the N-terminus peptide of the amyloid β is a peptide shown by the following amino acid sequence (b):
 - (b) DAEFR (Sequence ID No. 2).
- 4. The monoclonal antibody according to claim 1, which is obtained by immunizing an animal with a bound substance of the N-terminus peptide of the amyloid β and a biological high molecular compound as a first antigen, immunizing the thus-immunized animal with a bound substance of another N-terminus peptide of the amyloid β , which is comparatively shorter than the peptide used for the first antigen, and a biological high molecular compound as a second antigen, and collecting the antibody from the animal.
- 5. The monoclonal antibody according to claim 1, which is obtained by immunizing an animal with a bound substance of a peptide shown by the amino acid sequence (a) and a biological high molecular compound as a first antigen, immunizing the thus-immunized animal with a bound substance of a peptide shown by the amino acid sequence (b) and a biological high molecular compound as a second antigen, and collecting the antibody from the animal:

- (a) DAEFRHDSGYEVHHQK (Sequence ID No. 1) and
- (b) DAEFR (Sequence ID No. 2).
- 6. The monoclonal antibody according to any one of claims 1 to 5, wherein the monoclonal antibody is a chimeric antibody.
- 7. The monoclonal antibody according to any one of claims 1 to 5, wherein the monoclonal antibody is a humanized antibody.
- 8. A kit for assaying amyloids β comprising a first reagent containing an antibody which can recognize the N-terminus peptide of amyloid β , but not amyloid β precursor proteins, and a second reagent containing an antibody which can recognize amyloid β (1-40) or amyloid β (1-42).
- 9. The kit for assaying amyloid β according to claim 8, wherein the antibody recognizing an amyloid β (1-40) or amyloid β (1-42) is an antibody recognizing the C-terminus peptide of the amyloid β .
- 10. The kit for assaying amyloid β according to claim 8, wherein the C-terminus peptide of amyloid β is a peptide shown by the following amino acid sequence (c):
 - (c) MVGGVV (Sequence ID No. 3).
- 11. The kit for assaying amyloid β according to claim 10, wherein the kit is for assaying amyloid β (1-40).
 - 12. The kit for assaying amyloid β according to claim 8, wherein the

C-terminus peptide of amyloid β is a peptide shown by the following amino acid sequence (d):

- (d) GVVIA (Sequence ID No. 4).
- 13. The kit for assaying amyloid β according to claim 12, wherein the kit is for assaying amyloid β (1-42).
- 14. A method for assaying amyloid β comprising causing an antibody which can recognize the N-terminus peptide of an amyloid β , but not amyloid β precursor proteins, and an antibody which can recognize amyloid β (1-40) or amyloid β (1-42) to react with an amyloid β in a sample to be assayed.
- 15. The method for assaying amyloid β according to claim 14, wherein the antibody recognizing an amyloid β (1-40) or amyloid β (1-42) is an antibody recognizing the C-terminus peptide of the amyloid β .
- 16. A method for preparing a monoclonal antibody of claim 1 comprising immunizing an animal with a bound substance of the N-terminus peptide of the amyloid β and a biological high molecular compound as a first antigen, immunizing the thus-immunized animal with a bound substance of another N-terminus peptide of the amyloid β , which is comparatively shorter than the peptide used for the first antigen, and a biological high molecular compound as a second antigen, and collecting the antibody from the animal.
- 17. A therapeutic agent for Alzheimer's disease comprising the monoclonal antibody according to any one of claims 1 to 7 as an active ingredient.

- 18. A deposition inhibitor of amyloid β (1-40) or amyloid β (1-42) comprising the monoclonal antibody according to any one of claims 1 to 7 as an active ingredient.
- 19. A method for treatment of Alzheimer's disease comprising administering the monoclonal antibody according to any one of claims 1 to 7.
- 20. A method for inhibiting deposition of amyloid β (1-40) or amyloid β (1-42) comprising administering the monoclonal antibody according to any one of claims 1 to 7.